INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003766

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16C17/03									
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols)									
IPC 7 F16C									
Documental	ion searched other than minimum documentation to the extent that s	uch documents are included in the fields s	earched						
	ata base consulted during the international search (name of data base	se and, where practical, search terms used	I)						
EPO-In	ternal								
			•						
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.						
A	US 5 743 657 A (STOPP PETER G ET	- AL \	1						
^	28 April 1998 (1998-04-28)	AL)							
•	figure 1		,						
	column 4, line 1 - line 20								
Α	US 4 714 357 A (NOWAKOWSKI ROBERT	J ET	1						
	AL) 22 December 1987 (1987-12-22)	•							
	abstract figures 2,5	•							
	column 3, line 18 - line 34								
		A1 \							
Α	US 5 795 076 A (BALL JAMES H ET 18 August 1998 (1998-08-18)	AL)] , ¹						
	figures 22,28	,							
	column 10, line 49 - line 63								
-		-/	,						
		•	•						
X Furti	ner documents are listed in the continuation of box C.	χ Patent family members are listed	n annex.						
° Special ca	legories of cited documents:	"T" later document published after the inte	ernational filing date						
	ent defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or th invention	the application but eory underlying the						
"E" earlier o	laimed invention								
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone									
citation	or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an in	ventive step when the						
"O" document referring to an oral disclosure, use, exhibition or other means document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.									
	an the priority date claimed	*&" document member of the same patent	family						
Date of the actual completion of the International search Date of mailing of the International search report									
1	7 August 2004	25/08/2004							
Name and mailing address of the ISA		Authorized officer							
	European Patent Office, P.B. 5818 Patentlaan 2 NL 2280 HV Rijswijk Tel (-231-70) 340-2940, Tv. 31 651 epo pl								
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Schaeffler, C	•						

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/003766

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			_
Category °	Citation of document, with indication, where appropriate, of the relevant passages	· ·	Relevant to claim No.	_
A	US 3 787 105 A (GARDNER W) 22 January 1974 (1974-01-22) abstract figures 3,4		1	
1	US 4 026 613 A (MORAVCHIK JOSEPH L) 31 May 1977 (1977-05-31) figure 3		. 1	
	•			
		•		
	,			
		•		
	**			
			,	
		•		
	•			
	•			
	·			
		*	. '	
		•		
	•			
1				
	·			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/003766

				1	,
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5743657	A	28-04-1998	GB	2292192 A	14-02-1996
			DE	69503138 D1	30-07-1998
			DE	69503138 T2	18-03-1999
			EP	0774080 A1	21-05-1997
			WO	9605442 A1	22-02-1996
			JP	10503827 T	07-04-1998
US 4714357	Α	22-12-1987	NONE		ک قد امر جو بین کا کر جو جو صناحا جنگ ۳۰
US 5795076	A	18-08-1998	US	5951172 A	14-09-1999
•	•	•	US	5879085 A	09-03-1999
US 3787105		22-01-1974	CA	996168 A1	31-08-1976
4			DE	2356195 A1	06-06-1974
			ES	420552 A1	01-07-1976
. •		•	. GB	1437995 A	03-06-1976
			ΙT	996389 B	10-12-1975
•			JP	1114473 C	29-09-1982
		•	JP	49135052 A	26-12-1974
			JP	57002927 B	19-01-1982
		e _k •	NL	7316402 A ,B,	06-06-1974
			SE	395255 B	08-08-1977
US 4026613	- A	31-05-1977	CA	1047086 A1	23-01-1979